

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-11 (canceled)

12. (new) A brake caliper having a caliper wall, the caliper wall defining a cylinder with at least one axially displaceable, hydraulically actuated piston received in the cylinder, with which a brake pad can be pressed against a brake disc, the piston defining a cavity therewithin, with at least one inlet opening for feeding a cooling medium into the cavity, the inlet opening being arranged in the piston spaced away from the brake pad, and at least one outlet opening arranged in the piston adjacent to the brake pad for discharging cooling medium from the cavity, characterized in that a flow through device extends from the caliper wall into the interior space of the piston to allow passage of cooling medium from outside the caliper wall to the cavity.

13. (new) A brake caliper according to Claim 12, characterized in that the flow through device is integral with the wall of the brake caliper.

14. (new) A brake caliper according to Claim 12, characterized in that the piston comprises a hollow cylinder, wherein the friction lining is located on one face end of the cylinder and a coaxial inlet opening, through which the flow-through device extends, is provided in the other face end.

15. (new) A brake caliper according to Claim 12, characterized in that the piston is formed of two pieces.

16. (new) A brake caliper according to Claim 15, characterized in that a first piston piece is a hollow cylinder with an annular channel formed on the inner surface thereof.

17. (new) A brake caliper according to Claim 16, characterized in that the annular channel is arranged to receive an annular seal which seals against the outer surface of the flow through device.

18. (new) A brake caliper according to Claim 16, characterized in that the second piston piece comprises an end cap which is secured to the first piston piece at the end spaced from the inner annular channel by means of a ring in co-operating annular grooves around the end cap and on the inner surface of the first piston piece.

19. (new) A brake caliper according to Claim 12, characterized in that the outlet openings are located at regular intervals at the edge of the face end of the cylinder on which the friction lining is located, or openings are drilled through the wall of the piston adjacent the pad.

20. (new) A brake caliper having a caliper wall defining a cylinder with at least one axially displaceable, hydraulically actuated piston received on the cylinder, with which a brake pad can be pressed against a brake disc, the piston defining a cavity therewithin, with at least one inlet opening for feeding a cooling medium into the cavity, the inlet opening being arranged in the piston spaced away from the brake pad, and at least one outlet opening arranged in the piston adjacent to the brake pad for discharging cooling medium from the cavity, characterized in that the piston comprises two hollow, coaxial cylinders with different diameters, one of the cylinders extending through the caliper wall to act as a passageway for cooling medium from outside the caliper wall to the cavity.

21. (new) A brake caliper according to Claim 20, characterized in that the face end of the cylinder with the larger diameter spaced from the friction lining lies in the same plane as the face end of the cylinder with the smaller diameter that disposed towards the friction lining, wherein the two cavities of the cylinders form the cavity of the piston.

22. (new) A brake caliper according to Claim 12, characterized in that devices for influencing the cooling medium flow are provided in the cavity of the piston.

23. (new) A brake caliper according to Claim 20, characterized in that devices for influencing the cooling medium flow are provided in the cavity of the piston.

24. (new) A brake caliper according to Claim 12, characterized in that the brake caliper comprises a brake pad having a surface against which a piston of a caliper can be arranged to press, the brake pad having a cooling medium passageway formed therein arranged to receive cooling medium from the piston and to duct the medium away from the piston and/or to cool the pad.

25. (new) A brake caliper according to Claim 20, characterized in that the brake caliper comprises a brake pad having a surface against which a piston of a caliper can be arranged to press, the brake pad having a cooling medium passageway formed therein arranged to receive cooling medium from the piston and to duct the medium away from the piston and/or to cool the pad.

26. (new) A brake caliper according to Claim 24, characterized in that a blind bore is formed in the pad so as to lie generally centrally of the piston axis, extending from the rear surface, perpendicular thereto, part of the way into the pad.

27. (new) A brake caliper according to Claim 26, characterized in that coolant flow passageways are formed extending radially outwardly from the bore in fluid communication therewith.

28. (new) A brake caliper according to Claim 25, characterized in that a blind bore is formed in the pad so as to lie generally centrally of the piston axis, extending from the rear surface, perpendicular thereto, part of the way into the pad.

29. (new) A brake caliper according to Claim 28, characterized in that coolant flow passageways are formed extending radially outwardly from the bore in fluid communication therewith.

30. (new) A brake caliper piston for use in a brake caliper for pressing a brake pad against a brake disc, the piston defining a cavity and having a first end, an inlet opening for feeding cooling medium into the cavity in or adjacent to the first end and a second end arranged to press against a brake pad and an outlet opening in or adjacent to the second end, the first end being spaced from the second end, characterized in that the piston comprises two hollow, coaxial cylinders with different diameters, one of the cylinders extending through the caliper wall to act as a passageway for cooling medium from outside the caliper wall to the cavity.

31. (new) A brake caliper piston according to Claim 30, in which a plurality of outlet openings are provided, each opening being arranged in or adjacent to the second end.